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1 Vectorization on Monte Carlo particle transport: an architectural study using the LANL



benchmark "GAMTEB"

P. J. Burns, M. Christon, R. Schweitzer, O. M. Lubeck, H. J. Wasserman

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  pdf(1.19 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fully vectorized versions of the Los Alamos National Laboratory benchmark code Gamteb, a Monte Carlo photon transport algorithm, were developed for the Cyber 205/ETA-10 and Cray X-MP/Y-MP architectures. Single-processor performance measurements of the vector and scalar implementations were modeled in a modified Amdahl's Law that accounts for additional data motion in the vector code. The performance and implementation strategy of the vector codes are related to architecture ...

2 Concurrent and vectorized Monte Carlo simulation of the evolution of an assembly of



particles increasing in number

C.-H. Wu, C.-J. Wang

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  pdf(1.34 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Parallel Monte Carlo techniques for simulating the evolution of an assembly of charged particles interacting with a background gas medium under the influence of the electrical field are presented. This simulation problem has inherent parallelism in nature. All the particles can be traced independently in a short time interval. We have overcome three major difficulties: 1) the number of particles to be simulated is increasing over time due to the ionization process; 2) the conditional branch ...

3 Particle transport and image synthesis



James Arvo, David Kirk

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques****SIGGRAPH '90**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(470.13 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



simulate transportation of particle distribution

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Scholar Results 1 - 10 of about 736 for simulate transportation of particle distribution and ray and voxel.

A CT-based Monte Carlo simulation tool for dosimetry planning and analysis - group of 3 »

JJ DeMarco, TD Solberg, JB Smathers - Med. Phys, 1998 - link.aip.org

... Carlo methods," in The Monte Carlo **Transport** of Electrons ... assessment of the Peregrine

all-particle Monte Carlo ... **Simulation** run-rate for a 6 MV point source as ...

Cited by 62 - [Web Search](#) - [BL Direct](#)

Geant4—a simulation toolkit - group of 22 »

S Agostinelli, J Allison, K Amako, J Apostolakis, ... - Nuclear Instruments and Methods in Physics Research A, 2003 - infoscience.epfl.ch

... and the capture for subsequent analysis of **simulation** data at ... which operate at the problem setup, run, event, **particle transportation**, visualisation, and ...

Cited by 201 - [View as HTML](#) - [Web Search](#)

[Ps] BEAM: A Monte Carlo code to simulate radiotherapy treatment units - group of 8 »

DWO Rogers, BA Faddegon, GX Ding, CM Ma... - MEDICAL PHYSICS-LANCASTER PA-, 1995 - sao.nrc.ca

... model a wide variety of configurations since each **simulation** reads a ... planes, how to track a **particle's** history, which variance ... **transport** parameters to use, etc ...

Cited by 280 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

Computation of Global Illumination in a Participating Medium by Monte Carlo Simulation

SN Pattanaik, SP Mudur - JOURNAL OF VISUALIZATION AND COMPUTER ANIMATION, 1993 - cs.ucf.edu

... a long time for the solution of problems in **particle transport** 1, 2 ... 2 The **Simulation**

Algorithm ... sources choose the emitter from which the **particle** will originate ...

Cited by 37 - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

A Rendering Algorithm for Discrete Volume Density Objects - group of 5 »

P Blasi, BL Saec, C Schlick - Computer Graphics Forum, 1993 - eg.org

... expresses the light **transport** in the environment, 1 Laboratoire ... When **particles** are large compared to the wavelength ... a huge sphere used to **simulate** a background ...

Cited by 50 - [Web Search](#) - [BL Direct](#)

Adaptation of GEANT4 to Monte Carlo dose calculations based on CT data - group of 4 »

H Jiang, H Paganetti - MEDICAL PHYSICS-LANCASTER PA-, 2004 - dionysos.univ-lyon2.fr

... method is not practical since the **simulation** speed will ... but the same range for -ray emission cut ... cross section tables are built before **particle transport** starts ...

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Investigation of variance reduction techniques for Monte Carlo photon dose calculation using XVMC - group of 8 »

I Kawrakow, M Fippel - PHYSICS IN MEDICINE AND BIOLOGY, 2000 - iop.org

... is possible by reusing certain quantities, **particle** splitting, interaction ... CPU time spent on the **transport** of escaping ... is very large, the **simulation** will be ...

Cited by 33 - [Web Search](#) - [BL Direct](#)

Fast Algorithms for Volume Ray Tracing - group of 3 »

JM Danskin, P Hanrahan - VVS, 1992 - portal.acm.org

... 2 Light **Transport** ... B 's ideal sample **distribution** is $p(l)$ (within iuce we calculate both ... solve our problem because a **ray** taking even a tiny step can step ...
Cited by 136 - Web Search

[Basic dosimetry of radiosurgery narrow beams using Monte Carlo simulations: a detailed study of ... - group of 2 »](#)

A Chaves, MC Lopes, CC Alves, C Oliveira, L ... - Medical Physics, 2003 - link.aip.org
... MCNP-4B-based absorbed dose **distribution** estimates for ... A General Monte Carlo N-particle **transport** code version ... Trindade, "EGS4 and MCNP4B MC **Simulation** of a ...
Cited by 3 - Web Search - BL Direct

[... effects within digital images of trabecular bone and their consequences on chord-length **distribution** ... - group of 5 »](#)

DA Rajon, DW Jokisch, PW Patton, AP Shah, CJ ... - Physics in Medicine and Biology, 2002 - iop.org
... is based on the pathlength of the **particle** in that ... image to a Monte Carlo radiation **transport** code (Rajon ... accuracy, and to limit the computer **simulation** time. ...
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